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Not entered
Not RCRA
 OK
 7/19/84

		POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 1 - SITE INFORMATION AND ASSESSMENT		I. IDENTIFICATION	
		01 STATE	02 SITE NUMBER		
		26	D017188673		
II. SITE NAME AND LOCATION					
01 SITE NAME (Legal, common, or descriptive name of site)		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER			
Barrels, Inc.		1404 N. Larch St.			
03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
Lansing	MI	48906	Ingham	65	
09 COORDINATES LATITUDE		LONGITUDE			
43°44'58.0"		84°32'40.0"		T4N R2W Sec. 9 NE 1/4 NE 1/4	
10 DIRECTIONS TO SITE (Starting from nearest public road)					
496 West to Cedar St. Exit. Take Cedar/Larch North past Saginaw, Oakland, Grand River. Barrels on Right just past Larch-G.R. intersection.					
III. RESPONSIBLE PARTIES					
OWNER (if known)		02 STREET (Business, mailing, residential)			
Mr. Morris Goldstein, President		1404 N. Larch St.			
03 CITY	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER		
Lansing	MI	48906	(517) 482-1303		
07 OPERATOR (if known and different from owner)		08 STREET (Business, mailing, residential)			
Same as above					
09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER		
			()		
13 TYPE OF OWNERSHIP (Check one)					
<input checked="" type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL: _____ (Agency name) <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input type="checkbox"/> E. MUNICIPAL <input type="checkbox"/> F. OTHER: _____ (Specify) <input type="checkbox"/> G. UNKNOWN					
14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)					
<input type="checkbox"/> A. RCRA 3001 DATE RECEIVED: _____ MONTH DAY YEAR <input type="checkbox"/> B. UNCONTROLLED WASTE SITE/CERCLA 103 (a) DATE RECEIVED: _____ MONTH DAY YEAR <input type="checkbox"/> C. NONE					
IV. CHARACTERIZATION OF POTENTIAL HAZARD					
01 ON SITE INSPECTION		BY (Check all that apply)			
<input checked="" type="checkbox"/> YES DATE <u>10.27.81</u> MONTH DAY YEAR <input type="checkbox"/> NO		<input type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA CONTRACTOR <input checked="" type="checkbox"/> C. STATE <input type="checkbox"/> D. OTHER CONTRACTOR <input checked="" type="checkbox"/> E. LOCAL HEALTH OFFICIAL <input type="checkbox"/> F. OTHER: _____ (Specify)			
CONTRACTOR NAME(S): <u>ICHD-B. Cerv, MDNR-J. Kraft.</u>					
02 SITE STATUS (Check one)		03 YEARS OF OPERATION			
<input type="checkbox"/> A. ACTIVE <input checked="" type="checkbox"/> B. INACTIVE <input type="checkbox"/> C. UNKNOWN		<u>~1970</u> <u>1981</u> <input type="checkbox"/> UNKNOWN BEGINNING YEAR ENDING YEAR			
04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED					
Oil, grease, iron, other heavy metals, volatile hydrocarbons, PCB's, mercury.					
05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION					
Ground water, surface water, vapor release to population and environment.					
V. PRIORITY ASSESSMENT					
01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)					
<input checked="" type="checkbox"/> A. HIGH (Inspection required promptly) <input type="checkbox"/> B. MEDIUM (Inspection required) <input type="checkbox"/> C. LOW (Inspect as time available basis) <input type="checkbox"/> D. NONE (No further action needed, complete current disposition form)					
VI. INFORMATION AVAILABLE FROM					
01 CONTACT		02 OF (Agency/Organization)		03 TELEPHONE NUMBER	
Dan Cummins		MDNR-Region III Office-Dimondale		(517) 322-1300	
04 PERSON RESPONSIBLE FOR ASSESSMENT		05 AGENCY	06 ORGANIZATION	07 TELEPHONE NUMBER	08 DATE
Barbara Grabowski		MDNR	Site Assessment	(517) 373-0582	6 / 14 / 84 MONTH DAY YEAR



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
26

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- ☐ A. SOLID
☐ B. POWDER, FINES
☐ C. SLUDGE
☐ D. OTHER contaminated soils
(Specify)
- ☐ E. SLURRY
☐ F. LIQUID
☐ G. GAS

02 WASTE QUANTITY AT SITE

(Measure of waste quantities must be independent)

TONS

CUBIC YARDS 1.72 x 10⁵
NO. OF DRUMS 250 ± 1/4 full

03 WASTE CHARACTERISTICS (Check all that apply)

- ☒ A. TOXIC
☒ B. CORROSIVE
☐ C. RADIOACTIVE
☒ D. PERSISTENT
- ☒ E. SOLUBLE
☐ F. INFECTIOUS
☒ G. FLAMMABLE
☐ H. IGNITABLE
- ☒ I. HIGHLY VOLATILE
☐ J. EXPLOSIVE
☐ K. REACTIVE
☐ L. INCOMPATIBLE
☐ M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE	✓		all checked categories are present in undetermined gross amounts. found primarily mixed with soils and in puddles. Barrel quantity undetermined.
OLW	OILY WASTE	✓		
SOL	SOLVENTS	✓		
PSO	PESTICIDES			
OC	OTHER ORGANIC CHEMICALS	✓		
IOC	INORGANIC CHEMICALS	✓		
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS	✓		

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
IOC	Phenol	108-95-2	all materials were dumped onto ground or into pits with same standing water - barrels left open and overflowed to ground.	63.0	ppm
IOC	Cyanide	CLASS 018		6.8	ppm
MES	Cadmium	CLASS 013		1,100.0	ppm
MES	chromium	7440-47-3		15,000.0	ppm
MES	copper	CLASS 017		1,200.0	ppm
MES	nickel	CLASS 022		190.0	ppm
MES	lead	CLASS 019		71,000.0	ppm
ES	zinc	CLASS 027	all materials were dumped onto ground or into pits with same standing water - barrels left open and overflowed to ground.	2,500.0	ppm
ES	iron	7439-89-6		77,000.0	ppm
MES	manganese	7439-96-5		4,300.0	ppm
MES	mercury	7439-97-6		380.0	ppm
OLW	oil + grease	999		170,000.0	ppm
OCC	PCB-A 1242	1336-36-3		1,200.0	ppm
OCC	PCB-B 1254	1336-36-3		140.0	ppm
OCC	PCB-A 1260	1336-36-3		95.0	ppm
IOC	DEHP	117-81-7		3,700.0	ppm

V. FEEDSTOCKS (See Appendix for CAS Numbers)

chemical list continued on back →

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analyses, reports)

MDNR Air Qual. Div. Report - Dave Fiedler 11-23-82
Bob Cerv - Ingham Co. Hlth. Dept.
Bureau of Env. + Occ Hlth. - Doug Kalinowski
MDNR - Lansing GWQ office - SAS File + Gen'l Files

John Kraft - WQD - Dist II.
Karen Klingman - MDNR Reg III.



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

26

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 108,825 04 NARRATIVE DESCRIPTION

Municipal well (#25-18) located downgradient from site - supplies city of Lansing, E. Lansing Twp. and Delhi Twp. Hard to assess due to contribution by many businesses in area.

01 ☒ B. SURFACE WATER CONTAMINATION 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 48,451 04 NARRATIVE DESCRIPTION

Grand River Runs within 1/2 mi. of site - slope is less than 3% toward the river from the site. Some ephemeral ponding onsite with contamination.

01 ☒ C. CONTAMINATION OF AIR 02 ☐ OBSERVED (DATE: 11/23/82) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 160,660 04 NARRATIVE DESCRIPTION

MDNR Air Quality Report (Dave Fiedler, Engineer) gives a list of 15 chemicals found in the air samples. Odors were detected. Benzene + methylene chloride exceed lifetime continuous exposure levels. Cleanup may liberate PCB and Chlordane emissions.

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

NA due to chemicals bound to soils. Chemicals found do have flammability ratings ≥ 3 .

01 ☒ E. DIRECT CONTACT 02 ☒ OBSERVED (DATE: 10-18-83) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 15,091 04 NARRATIVE DESCRIPTION

Fence had been cut - neighbors report seeing children playing onsite. Homeless also seen inhabiting shed outback.

01 ☒ F. CONTAMINATION OF SOIL 02 ☐ OBSERVED (DATE: 7-20-82) ☐ POTENTIAL ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: 1.8 acres 04 NARRATIVE DESCRIPTION

(Acres) undetermined depth
Surface soil samples show high levels of PCB, Cadmium, Zinc etc. throughout property.

01 ☒ G. DRINKING WATER CONTAMINATION 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 108,825 04 NARRATIVE DESCRIPTION

See groundwater above

01 ☒ H. WORKER EXPOSURE/INJURY 02 ☒ OBSERVED (DATE: 8-4-81) ☐ POTENTIAL ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: > 3.0 04 NARRATIVE DESCRIPTION

on July 27, 1981 Mrs. Terry Anglemeyer, wife of Barrels employee called Jim Budd, MDPH, to complain that her husband became sick from handling Barrels' Drums. NIOSHA violation determined + remedial measures demanded. 03-30-79 - a release of chlorine gas occurred - 2 workers hospitalized.

01 ☒ I. POPULATION EXPOSURE/INJURY 02 ☒ OBSERVED (DATE: 10-18-83) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 160,660 04 NARRATIVE DESCRIPTION

Supposedly adequate fencing around site, but is an attractive nuisance with 3 schools within 1/4 - 1/2 mi. radius. Citizens report seeing children inside fenced area. Inspection revealed that the fence had been cut allowing access to site.



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED

NA

01 ☐ K. DAMAGE TO FAUNA
04 NARRATIVE DESCRIPTION (include name(s) of species)

02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED

NA

01 ☐ L. CONTAMINATION OF FOOD CHAIN
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED

NA

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES
(Spills/runoffs/leaking liquids/leaking drums)

02 ☒ OBSERVED (DATE: 10-27-81) ☐ POTENTIAL ☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: 160,660
04 NARRATIVE DESCRIPTION Drums were taken out back +
dumped of ~1" residue before cleaning + painting. Often left out w/o lids + rainwater
overflowed to soils w/contaminants. Drums have rusted + paints poured on soil.

01 ☐ N. DAMAGE TO OFFSITE PROPERTY
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED

NA

01 ☒ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs
04 NARRATIVE DESCRIPTION

02 ☒ OBSERVED (DATE: 1972) ☐ POTENTIAL ☐ ALLEGED

Barrels wastewater sent to City of Lansing WWTP prior to
79. Pipp submitted 1979. Barrels installed 1st wwt at plant but no staff
there were adequately trained to operate it. Problems continued post-1979.

01 ☒ P. ILLEGAL/UNAUTHORIZED DUMPING
04 NARRATIVE DESCRIPTION

02 ☒ OBSERVED (DATE: 1975) ☐ POTENTIAL ☐ ALLEGED

Pictures taken by DNR depict spillage + sloppiness of operation.
Also documented in J. Kraft Staff Report Oct. 27, 1981.

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

NA.

III. TOTAL POPULATION POTENTIALLY AFFECTED: 160,660

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e. g., state files, sample analysis, reports)

SI (start) 8/4/87
comp 8/4/87
6/14/84
C2

EXECUTIVE SUMMARY

Site Name and Location

Barrels, Incorporated
1404 N. Larch Street
Lansing, Michigan 48906

County: Ingham
Michigan Code Number: 3304N02W09AA
DNR District: Lansing
EPA ID Number: MID017188673

A preliminary assessment for Barrels, Inc. was specifically requested by EPA. Barrels, Inc. was a barrel reclaiming facility which was owned and operated by Mr. Morris Goldstein. The facility received metal barrels from industrial facilities for cleaning and repainting. All containers received were supposedly empty, although employees reported that the barrels usually contained one to two inches of sludge. To dispose of the sludge, workers dumped the residue onto the ground in back of the plant. This practice continued for many years. Barrels waiting for refurbishing were left outside, often without lids. Rainwater filled the barrels and overflowed onto the ground, resulting in soil contamination. Paint sludges were also deposited at this North Lansing industrial site. Several private residences are located in the adjoining neighborhood.

Soils on site are contaminated with heavy metals, volatile hydrocarbons, PCBs, oil and grease, plus many inorganic substances. Oil and grease was discovered in the soil at 170,000 ppm, chromium at 15,000 ppm, iron at 77,000 ppm, and lead at 71,000 ppm.

The potential exists for contamination of the Lansing municipal well which supplies water for the City of Lansing, East Lansing Township, and Delhi Township. The Grand River flows within 1/2 mile of the site. Air quality reports indicate elevated levels for benzene and methylene chloride. There are reported incidents of worker exposure and injury during the company's operational years. Barrels, Inc. is now closed and fenced, but reliable reports indicate that the fence was cut, allowing access to transients and children.

Follow Up Recommendation for EPA

All of the above mentioned hazardous conditions make for a "high" priority for inspection at Barrels, Inc. Since soil surface contamination has been confirmed, and ground and drinking water contamination are suspected, inspections should include tests to confirm groundwater contamination, determine the extent of the plume if one exists, and assess the threat to drinking water.

Date: July 20, 1984
Name: B. Grabowski